

Pramod Anandarao

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EDUCATION

University of Wisconsin-Madison

Madison, WI | 2022 - 2026

- *Computer Science B.S., Mathematics B.S., Political Science B.A.*
- Relevant Coursework: Artificial Intelligence, Big Data Systems, Algorithms, Combinatorics, Modern Algebra I-II, Real Analysis, Political Theory, Public Policy, Criminal Law, Survey Research.

John Marshall High School

Rochester, MN | 2018 - 2022

- Weighted GPA/Rank: 4.92/4.00, rank 2 of 342. Unweighted GPA/Rank: 4.00/4.00, rank 1 of 342.

RESEARCH AND PROJECTS

Madison Experimental Mathematics Lab

Madison, WI | January 2024 - Present

Student Researcher, Advised by Prof. Joshua Mundinger

- Project title: "Explaining Congruences in Character Tables."
- Work ten hours per week, collaborating with peers to develop programs in addition to preparing and giving presentations.
- Write Sage programs to search for congruences modulo prime powers in character tables of finite groups.

Exploring Racial Inequality in Online Social Network Structure

Madison, WI | August 2023 - December 2023

Student Researcher

- Collaborated closely with mentor to analyze large volumes of Chicago Twitter data, utilizing R for data processing and sentiment analysis to identify key trends and patterns in data.
- Executed large-scale computational jobs on university's computing cluster using Slurm Workload Manager.

Low Cost Mobile Diagnosis of Diabetic Retinopathy

Rochester, MN | November 2019 - March 2021

Science Fair Project

- Created a classifier to detect the presence and severity of diabetic retinopathy in fundus images using deep learning techniques. Investigated the efficacy of using generative adversarial networks for the creation of additional training data.
- Presented project at regional fair and qualified to state fair. Awarded Minnesota State Science and Engineering Fair Bronze Medal in 2020 (top 15% of projects in the state) and Gold Medal in 2021 (top 5% of projects in the state).

EXPERIENCE

K-12 Computer Science Club

Madison, WI | January 2024 - Present

Instructor

- Teach 2 weekly after-school computer science clubs in Scratch programming language to elementary school students in Madison area.
- Speak with fellow club leaders to create lesson plans, encourage student engagement, and foster student interest in computer science and math.

Intercollegiate Programming Contest (ICPC)

Madison, WI | September 2022 - Present

Competitor

- Attend and participate in weekly club meetings to prepare for algorithmic programming contest.
- Organize 3 member team to compete on behalf of the University of Wisconsin-Madison at regional competition among 116 teams.

Jean Marvin and Cathy Nathan for School Board Campaign

Rochester, MN | June 2022 - November 2022

Youth Campaign Advocate

- Volunteered to campaign for Jean Marvin and Cathy Nathan for school board re-election.
- Attended campaign meetings and debates. Canvassed with the candidates and other volunteers in local neighborhoods.
- Won primary election in August with more than 50% of the vote. Won general election in November with more than 60% of the vote.

University of Minnesota Talented Youth Math Program

Rochester, MN | September 2021 - May 2022

Teaching Assistant

- Worked as a volunteer teaching assistant for Calculus III course for high school students through the University of Minnesota.
- Provided support during class lecture, guided students in group work, and assisted with homework help sessions.

HONORS AND AWARDS

Claude and Dora Richardson Engineering Freshman Scholarship Fund

2022

National Merit Scholarship Semifinalist

2022

SKILLS

Technical Skills: **Python, LaTeX, Java, JavaScript, C, C++, R, machine learning** (experience with **TensorFlow** and **PyTorch**), **Hadoop Distributed File System, Apache Spark, Apache Cassandra, MySQL, gRPC (remote-procedure-calls), React, Node.js**.

Languages: **English** (native), **Telugu** (proficient), **Latin** (basic).